

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

Claims 1-14 (Canceled)

Claim 15 (Previously presented): A transmitting apparatus using polar modulation, the apparatus comprising:

    a polar signal producer, producing signals corresponding to an amplitude and a phase of a transmitting modulated signal from an input signal;

    an amplitude signal producer, producing an amplitude signal from a signal corresponding to the amplitude;

    a phase-modulated signal producer, producing a phase-modulated signal from a signal corresponding to the phase;

    an amplitude-modulation amplifier, amplitude-modulating the phase-modulated signal by the amplitude signal and the phase-modulated signal to produce a transmitting modulated signal;

    an amplitude/phase detector, detecting an amplitude signal and a phase signal from an input signal to the amplitude-modulation amplifier and an input signal to the phase-modulated signal producer, wherein the amplitude/phase detector is constructed of a digital circuit and has a selector

selecting either the amplitude signal or the phase signal and an analog-digital converter converting the selected amplitude signal or phase signal provided at an input section of the amplitude signal and the phase signal;

a delay difference computer, computing a delay difference between an amplitude signal and a phase signal based on the signal corresponding to the amplitude and the signal corresponding to the phase, which are produced by the polar signal producer, and the amplitude signal and the phase signal, which are detected by the amplitude/phase detector; and

a timing adjustor, adjusting timings of the amplitude signal and the phase signal based on the delay difference computed by the delay difference computer.

Claims 16-24 (Canceled)